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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/HB/17/2020-2021 Date:06.01.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.
Agency : **Sri. H B Rajendra,** Contractor, Bangalore.
Name of Work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample : :Cement (Zuari 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: :December-2020
Date of Testing 04.01.2021 to 06.01.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.50%	-

Note:

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Job No.: SCE/BBMP/HB/17/2020-2021

Date 06.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.
Agency : **Sri. H B Rajendra,** Contractor, Bangalore.
Name of Work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Date of Testing 06.01.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	114	11.40	19.60	80.4	75-100
1.18	170	17.00	36.60	63.4	55-90
600 Micron	215	21.50	58.10	41.9	35-59
300 Micron	202	20.20	78.30	21.7	8-30
150 Micron	158	15.80	94.10	5.9	0-10

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Job No.: SCE/BBMP/HB/17/2020-2021

Date 06.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of Work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Date of Testing 06.01.2021

IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	189	1.26	1.26	98.74	95-100
20	8566	57.11	58.37	41.63	30-70
10	3145	20.97	79.33	20.67	10-35
4.75	2655	17.70	97.03	2.97	0-5

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Job No.: SCE/BBMP/HB/17/2020-2021

Date 06.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of Work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Date of Testing 06.01.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	178	3.6	3.6	96.4	95-100
10	3063	61.3	64.8	35.2	25-55
4.75	1542	30.8	95.7	4.3	0-10

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Job No.: SCE/BBMP/HB/17/2020-2021

Date: 06.01.2021

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.
Agency : : **Sri. H B Rajendra,** Contractor, Bangalore.
Name of Work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample Identification : 8mm,10mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 06.01.2021

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	Fe 500	8	0.398	521	599	20
2	Fe 500	10	0.618	509	623	25

Remarks:

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b No.: SCE/BBMP/HB/17/2020-2021

Date: 16.01.2021

KERB STONE (CORE) TEST REPORT

lient : : Executive Engineer, RR Naga Division,BBMP, Bangalore.

gency : : Sri. H B Rajendra, Contractor, Bangalore.

Name of Work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

No.of Sample Tested : 3

Date of Testing : 16.01.2021

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.368	2342.76	1.60	0.957	26.20	13.34	14.41	13.79	17.24
2	50.00	80.00	0.363	2310.93	1.60	0.957	28.10	14.31	15.46	14.79	18.49
3	50.00	80.00	0.375	2387.32	1.60	0.957	26.80	13.65	14.74	14.10	17.63

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Job No.: SCE/BBMP/HB/17/2020-2021

Date: 07.01.2021

TEST REPORT

CLIENT	:	**: Executive Engineer,** RR Naga Division, BBMP, Bangalore.
AGENCY	:	**: Sri. H B Rajendra,** Contractor, Bangalore.
NAME OF THE WORK	:	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)
Type of the test	:	Physical tests on Paver Blocks
Date of Testing	:	06.01.2021 to 07.01.2021
Samples supplied by	:	Agency

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	75.20	75.23
2	02	75.26	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	684.7	24,200	28.35	283.5	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	686.3	24,200	28.24	282.4	

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Job No.: SCE/BBMP/HB/17/2020-2021

Date 06.01.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : Executive Engineer, RR Naga Division,BBMP, Bangalore.
Agency : Sri. H B Rajendra, Contractor, Bangalore.
Name of the Work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Date of Testing 06.01.2021
Size of Blocks : 400mm x 200mm x 200mm
Cross Sectional Area : 80000 mm^2
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.9	452.6	5.66	2056.25	Minimum required Compressive Strength of Individual Units $5N/mm^2$
2	Block 2	33.4	403.5	5.04	2087.50	
3	Block 3	33.6	413.8	5.17	2100.00	
4	Block 4	31.8	427.1	5.34	1987.50	

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Job No.: SCE/BBMP/HB/17/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 01.02.2021

Client Agency : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Name of the work : **Sri. H B Rajendra,** Contractor, Bangalore.
Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2021	01.02.2021	8.025	389.9	17.33
2	25.01.2021	01.02.2021	8.066	401.1	17.83
3	25.01.2021	01.02.2021	8.021	412.2	18.32

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Lab No.: SCE/BBMP/HB/17/2020-2021

Date: 09.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, RR Naga Division,BBMP, Bangalore.
Agency	: Sri. H B Rajendra, Contractor, Bangalore.
Name of the work	: Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.02.2021	09.02.2021	8.212	386.6	17.18
2	02.02.2021	09.02.2021	8.063	392.2	17.43
3	02.02.2021	09.02.2021	8.025	378.1	16.80

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Job No.: SCE/BBMP/HB/17/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 17.02.2020

Client Agency : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Name of the work : **Sri. H B Rajendra,** Contractor, Bangalore.
Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2021	17.02.2020	8.032	390.2	17.34
2	10.02.2021	17.02.2020	8.112	405.1	18.00
3	10.02.2021	17.02.2020	8.054	412.0	18.31

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Job No.: SCE/BBMP/HB/17/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 22.02.2021

Client Agency : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Name of the work : **Sri. H B Rajendra,** Contractor, Bangalore.
Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2021	22.02.2021	8.032	596.6	26.52
2	25.01.2021	22.02.2021	8.022	601.1	26.72
3	25.01.2021	22.02.2021	8.015	621.1	27.60

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Job No.: SCE/BBMP/HB/17/2020-2021

Date: 02.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Agency : Executive Engineer, RR Naga Division,BBMP, Bangalore.

Name of the work : Sri. H B Rajendra, Contractor, Bangalore.
Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.02.2021	02.03.2021	8.003	613.3	27.26
2	02.02.2021	02.03.2021	8.120	602.2	26.76
3	02.02.2021	02.03.2021	8.025	614.4	27.31

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Job No.: SCE/BBMP/HB/17/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 10.03.2021

Client Agency : Executive Engineer, RR Naga Division,BBMP, Bangalore.

Name of the work : Sri. H B Rajendra, Contractor, Bangalore.
Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2021	10.03.2021	8.025	607.1	26.98
2	10.02.2021	10.03.2021	8.140	589.9	26.22
3	10.02.2021	10.03.2021	8.055	602.2	26.76

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